


Alternative Technical Concept (“ATC”) Review Process


SPEAKER NAME, TITLE
Month Day, 2017

Roger Millar, Secretary of Transportation

Safety


- Sign-in
- Who is CPR Qualified?
- AED
- Who will call 911?
- Evacuation
- Restrooms
- Breaks



2

Course Overview

- Definition and Process
- Evaluation of the ATC
- Next Steps
- Case Studies

3

Definition and Process



WSDOT

4

Alternative Technical Concept Definition

Definition:

- A confidential request by a Proposer to modify a contract requirement specifically for that Proposer prior to the Proposal due date.
- **Overall “equal or better” project.**
 - Requests that merely delete scope or reduce performance *are not ATCs*.
- **Approval of the ATC is solely within WSDOT’s discretion.**
 - Must be fully approved before submission of the Proposal.

WSDOT

5

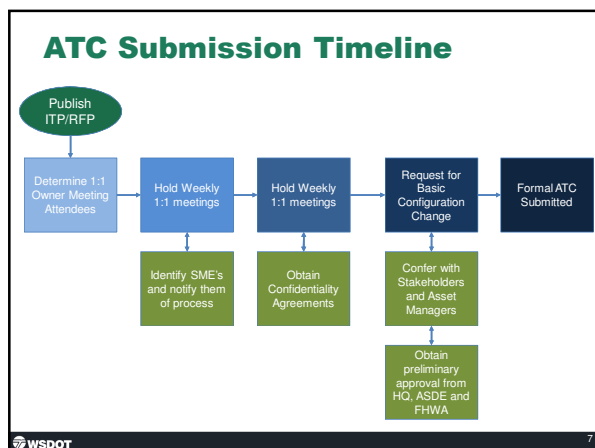
Benefits of the ATC

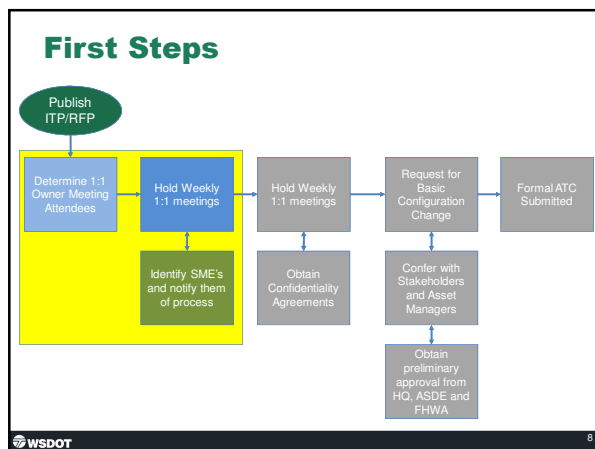
- Reduces cost
- Promotes innovation
- Maintains flexibility

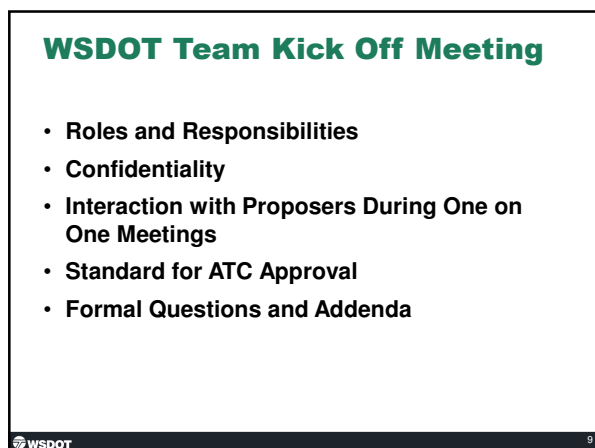


WSDOT

6







Roles and Responsibilities

- Point of Contact/Project Engineer
- Design Manager
- Procurement Support
- Subject Matter Experts
- ASCE
- Region Approval Contact

WSDOT

10

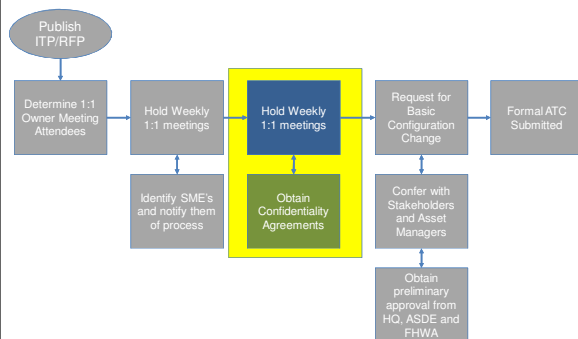
WSDOT Interaction With Proposers

- Request agenda from Proposer
- Provide uniform information
- Do not offer solutions or opinions
- Maintain confidentiality
- Do not take formal notes
- Do not accept material from Proposer
- Follow up after the meeting

WSDOT

11

One on One Meetings



WSDOT

12

Confidentiality

- **COMPLETELY** confidential
- Every person must sign a Confidentiality Agreement.
- Restrict participation by WSDOT personnel to a minimum.
- Restrict third parties with knowledge of the ATC to a minimum.
 - Includes Local Agencies, Utilities, etc.
 - Request confidentiality from all third parties

WSDOT

13

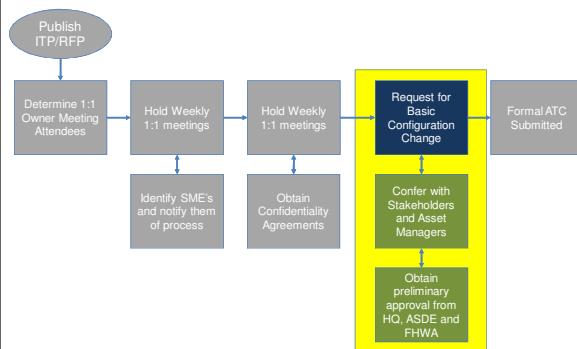
Confidentiality

- WSDOT personnel must remain neutral regarding ATCs
- WSDOT must maintain security of documentation
- Proposers may not disclose pricing information
- Proposers must obtain permission before disclosing ATC to third parties

WSDOT

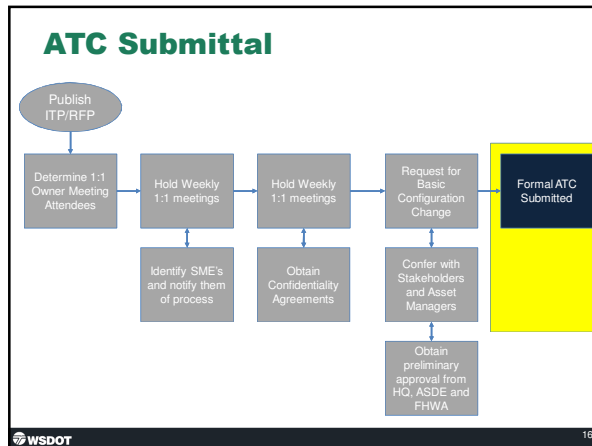
14

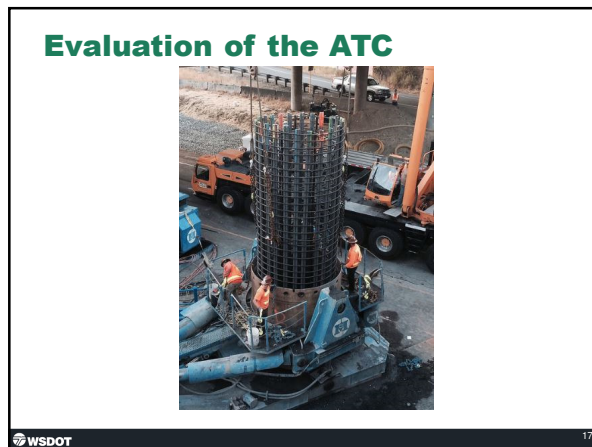
Preliminary Response



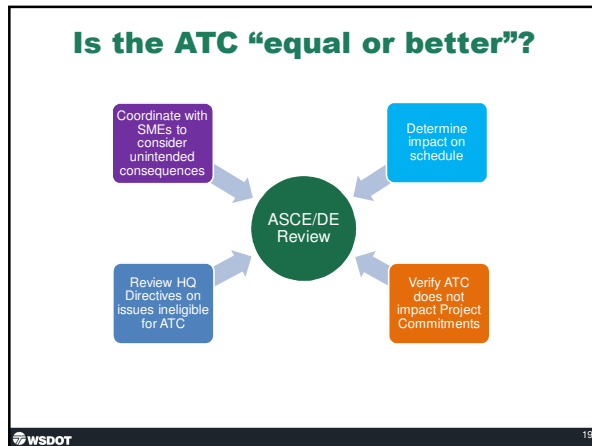
WSDOT

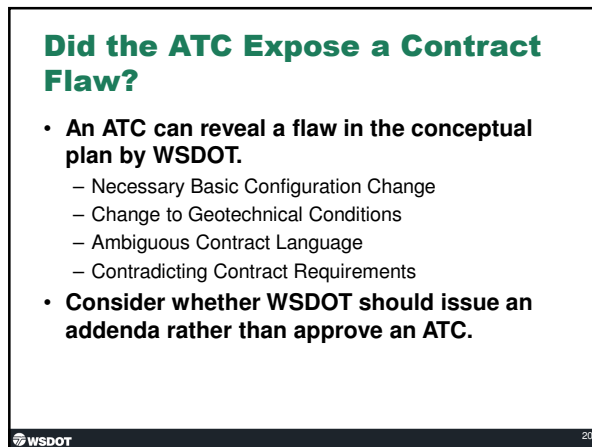
15

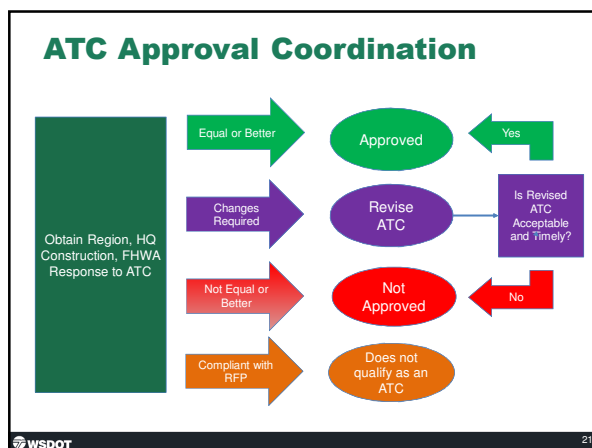




- ### ATC Submittal Contents
- Detailed description of the ATC
 - Usage
 - Subsurface Investigation
 - Proposed RFP Modifications
 - Design Analysis
 - Analysis of "Equal or Better"
- WSDOT 18







Not Eligible for ATC

- ATCs that are not “equal or better”
- Scope Cut
- Already Allowed by the RFP
- Any ATC that would require excessive time or cost for WSDOT to review, evaluate, or investigate

WSDOT

22

Bridge Minimum Requirements

- Not eligible for ATC or Practical Design
- Applicable to all bridges and structures
- Based on experience in Washington
- Ensures longevity and safety



WSDOT

23

Next Steps



WSDOT

24

After Approval

- Incorporated into Proposal
- Proposers Responsible for Geotechnical Information
- Proposers Responsible for Utility Investigation

WSDOT

25

Ownership of Information in the ATC

- ATCs are “Works for Hire”
- Submission of RFP Forms “M” and “N” creates agreement
 - Acceptance of Stipend
 - Transfer of intellectual property rights in the Work submitted, including ATCs

WSDOT

26

ATC Case Studies



WSDOT

27

ATC Case Study: SR 167 / Puyallup River Bridge

- **Subject: Variable Depth Girders**
 - RFP requires girder rows to be a consistent depth
 - ATC requested use of shorter girders for the first span
- **Proposed RFP Modifications**
- **“Equal or Better” Analysis**



WSDOT

28

ATC Case Study: I-5/SR 16 Connectors

- **Subject: Modified MSE Wall Backfill**
 - RFP required MSE Wall Backfill material to meet the Standard Specifications
 - Revise the sieve specifications to allow on-site material for MSE Wall Backfill
- **Proposed RFP Modifications**
- **“Equal or Better” Analysis**



WSDOT

29

ATC Case Study: SR 167 Puyallup River Bridge

- **Subject: Design of Drilled Shafts**
 - RFP required the design of shafts to discount the structural capacity of steel casings
 - ATC proposed to include the structural capacity of the steel casings in the design analysis
- **Proposed RFP Modifications**
- **“Equal or Better” Analysis**



WSDOT

30

Practical Solutions Concept

- New process for WSDOT.
- Similar to an ATC, however, this process allows for concepts that aren't "equal to or better".
- Idea is subtracted from the proposal price.
- Cannot use it on a Federally Funded project.
- The Practical Solutions Concept can reduce scope.

WSDOT

31

ATC Case Study: SR 167 Puyallup River Bridge

- **Subject: Alternate Bridge Alignment**
 - RFP Conceptual Plan identified a new alignment for the replacement bridge.
 - The new alignment required right-of-way, retaining wall construction and utility relocation.
 - ATC made use of existing steel truss bridge for temporary detour and constructed the new bridge on the existing alignment. This eliminated the need for right-of-way, retaining wall and utility relocation.

<https://www.youtube.com/watch?v=nwPTzPJfDN4>

WSDOT

32

WSDOT Design-Build Training

The WSDOT Design-Build Training Courses have the following modules:

- **In Person Courses:**
 - Design-Build 101 (*Prerequisite to this course*)
 - Design-Build Startup and Request for Qualifications ("RFQ") Development
 - Design-Build Instructions to Proposers (ITP) and Request for Proposals (RFP) Development
 - Design-Build Office Management and Contract Administration
 - Design-Build Closeout Process
 - Environmental in Design-Build
 - Quality in Design-Build
- **Online Courses:**
 - Statement of Qualifications Evaluation
 - Proposal Evaluation
 - Alternative Technical Concept Review Process

WSDOT

33

Headquarters Design-Build Contacts

Art McCluskey, PE
Design-Build Program Manager
(360) 705-7468
mcclusa@wsdot.wa.gov

Jolena Missildine, Assoc. DBIA, CCM
Design-Build Engineer
(360) 709-7548
missildj@wsdot.wa.gov

Dacia Dunbar
Design-Build Assistant
(360) 705-6859
dunbard@wsdot.wa.gov

Mark Gaines, PE
Lead Construction Engineer
(360) 705-7827
gainesm@wsdot.wa.gov

Alex Countouriotis
Design-Build Liaison
(360) 705-7831
countoa@wsdot.wa.gov

Resources

- WSDOT Design-Build Web Page
<http://www.wsdot.wa.gov/Projects/delivery/designbuild/Default.htm>
- Joint Transportation Committee of Washington State Legislature Design-Build Study
<http://leg.wa.gov/JTC/Pages/Design-Build-Study.aspx>
- WSDOT Design-Build Templates
<http://sharedot.eng/cn/hqconstr/dpb/DB%20Templates/Forms/AllItems.aspx>
- Design-Build Institute of America Best Practices
<https://www.dbia.org/resource-center/Pages/Best-Practices.aspx>
- Design-Build Institute of America Transportation Conference
www.dbia.org

Questions